

Applicant: John E. Sherry
Application Serial No.: 09/978,383
Filing Date: October 16, 2001
Docket No.: 760-97 (formerly 498-261)
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B. Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

Claim 1 (currently amended): A tubular prosthesis comprising:

a tubular member; ~~and~~

an outer covering sealed to portions of said tubular member, a pocket being defined between said tubular member and said outer covering to accommodate a pre-determined agent in forming a seal ring, said outer covering being impervious to said pre-determined agent, wherein said pocket singularly circumscribes said tubular member in an annular shape; and,

at least one channel in fluid communication with said pocket, wherein said channel being configured to not constrain said seal ring upon formation.

Claim 2 (original): A prosthesis as in claim 1, wherein said tubular member is a graft.

Claim 3 (original): A prosthesis as in claim 1, wherein said tubular member is a stent/graft combination.

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Claim 4 (original): A prosthesis as in claim 3, wherein said stent is expandable.

Claim 5 (original): A prosthesis as in claim 4, wherein said stent is self-expanding.

Claim 6 (original): A prosthesis as in claim 1, wherein said outer covering is pervious to a therapeutic agent disposed in said pocket.

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Claim 7 (original): A prosthesis as in claim 1, wherein said tubular member is impervious to said pre-determined agent.

Claim 8 (original): A prosthesis as in claim 1, wherein said pre-determined agent is substantially incompressible.

Claim 9 (original): A prosthesis as in claim 1, wherein said pre-determined agent is a fluid.

Claim 10 (original): A prosthesis as in claim 1, wherein said pre-determined agent is in a semisolid state.

Claim 11 (original): A prosthesis as in claim 1, wherein said pocket is expandable.

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Claim 12 (original): A prosthesis as in claim 11, wherein said outer covering is formed of a stretchable material.

Claim 13 (original): A prosthesis as in claim 11, wherein said outer covering is pleated about said pocket.

Claim 14 (original): A prosthesis as in claim 1, further comprising a fluid conduit in fluid communication with said pocket.

Claim 15 (original): A prosthesis as in claim 14, wherein said fluid conduit is in fluid communication with said pocket via a channel.

Claim 16 (original): A prosthesis as in claim 1, wherein said tubular member has a first end, said pocket being located in proximity to said first end.

Claim 17 (cancelled)

Claim 18 (original): A prosthesis as in claim 1, wherein said prosthesis is an endovascular prosthesis.

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Claim 19 (currently amended): A tubular prosthesis comprising:

a tubular member;

an outer covering sealed to portions of said tubular member, a pocket being defined between said tubular member and said outer covering so as to form a seal ring, said pocket singularly circumscribing said tubular member in an annular shape; ~~and~~

a filling agent disposed in said pocket; and,

at least one channel in fluid communication with said pocket, wherein said channel being configured to not constrain said seal ring upon formation.

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Claim 20 (original): A prosthesis as in claim 19, wherein said agent is substantially incompressible.

Claim 21 (original): A prosthesis as in claim 19, wherein said agent is a liquid.

Claim 22 (original): A prosthesis as in claim 19, wherein said agent is in a semisolid state.

Claim 23 (original): A prosthesis as in claim 19, wherein said agent substantially fills said pocket.

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Claim 24 (original): A prosthesis as in claim 19, wherein said pocket is at least partially filled by said agent such that at least portions of said outer covering extend from said tubular member.

Claim 25 (original): A prosthesis as in claim 19, wherein said pocket is sufficiently filled with said agent to at least partially contiguously contact a wall of a blood vessel.

Claim 26 (cancelled)

Claim 27 (cancelled)

Claim 28 (original): A prosthesis as in claim 19, wherein said agent is selected from the group consisting of hydrogels, moisture activated urethanes, and cyanoacrylates.

Claim 29 (previously presented): A method of treating an aneurysm, the method comprising the steps of:

implanting endovascularly an endovascular prosthesis including a tubular member, and an outer covering sealed to portions of said tubular member, a pocket being defined between said tubular member and said outer covering; and

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conveying an amount of filling agent into said pocket of said implanted endovascular prosthesis, said amount being sufficient to at least partially fill said pocket to form a seal ring such that said pocket is in at least partial contiguous contact with a wall of blood vessel in proximity to the aneurysm.

Claim 30 (original): A method as in claim 29, wherein said filling agent is conveyed in liquid form.

Claim 31 (cancelled)

Claim 32 (original): A method as in claim 29, further comprising the step of placing a fluid conduit into fluid communication with said pocket.

Claim 33 (original): A method as in claim 32, wherein the step of conveying includes conveying said filling agent via said fluid conduit.

Claim 34 (original): A method as in claim 32, wherein the step of placing is before the step of implanting.

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Claim 35 (original): A method as in claim 29, wherein said filling agent is selected from the group consisting of hydrogels, moisture activated urethanes, and cyanoacrylates.

Claim 36 (cancelled)

Claim 37 (cancelled)

Claim 38 (previously presented): A tubular prosthesis comprising:

a tubular member, and

an outer covering sealed to portions of said tubular member, a pocket being defined between said tubular member and said outer covering to accommodate a pre-determined agent, said outer covering being impervious to said pre-determined agent, wherein said outer covering is pervious to a therapeutic agent disposed in said pocket.

Claim 39 (previously presented): A tubular prosthesis comprising:

a tubular member, and

an outer covering sealed to portions of said tubular member, a pocket being defined between said tubular member and said outer covering to accommodate a pre-determined agent,

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said outer covering being impervious to said pre-determined agent, wherein said pocket is
formed to be expandable with said outer covering being pleated about said pocket.

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C. Amendments to the Drawings

[None]